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Television Coverage of the Gemini Program

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Solar Magnetic Fields: V. Bumba and R. Howard
Study of solar magnetic fields shows the importance of large- and small-scale structure in solar activity.

Ant Venoms, Attractants, and Repellents: G. W. K. Cavill and P. L. Robertson
Secretions are used by ants in attack and defense and as chemical messengers in their social organization.

The Biophysical Problems of Photosynthesis: R. K. Clayton
Electrooptical techniques have brought clarification of physical and chemical events in photosynthesis.

NEWS AND COMMENT
Hospital Desegregation: HEW Criticized—Space: Orbiting Laboratory for Air Force

BOOK REVIEWS

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Electron Microscopy of Fossil Bacteria Two Billion Years Old: J. W. Schopf et al.

Sands of the Mid-Atlantic Ridge: P. J. Fox and B. C. Heezen

Enrichment of Tritium by Thermal Diffusion and Measurement of Dated Antarctic Snow Samples: H. v. Buttlar and B. Wiik

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Lymphocytes of Small Mammals: Spontaneous Transformation in Culture to Blastoids: S. M. Sabesin

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Cover

Electron micrograph of surface replica of fossil bacteria found in Gunflint chert approximately 2000 million years old. The polished rock surface was etched with hydrofluoric acid to dissolve the inorganic matrix; then it was shadowed and replicated with a platinum-carbon film. These well-preserved bacilli are morphologically similar to certain extant iron bacteria. They are among the most ancient fossils now known (about × 24,000). See page 1365. [Morton D. Maser, Harvard University]